Application No. 09/818,706 Amendment dated December 04, 2003 Reply to Office Action dated June 05, 2003

- 1. (Currently Amended) A method for recovering fluorescent material from faulty glass bodies (1)-of discharge lamps, said glass body (1)-having a glass envelope and a coating of fluorescent material including binding material on the surface of the glass envelope, said method comprising the steps of breaking the faulty glass bodies (1)-in a crusher; separating a remaining fraction forming a reusable waste from the broken scrap including glass particles and fluorescent material particles by sieving-(15); treating the remaining fraction by heat for removing the binding material from the fluorescent material; separating the fluorescent material from the surface of the glass particles in a liquid by washing-(19); and obtaining a reusable fluorescent material from the liquid suspension by means of at least one sedimentary deposition (21).
- 2. (Currently Amended) The method of claim 1 in which the crusher has press rollers (23, 25) and the distance between the press rollers (23, 25) is equal to 0, 6D 0, 9D0.6D -0.9D, where D is the diameter of the glass envelope.
- 3. (Currently Amended) The method of claim 1 in which the crusher has press rollers (23, 25) and the distance between the press rollers (23, 25) is adjustable.
- 4. (Original) The method of claim 1 in which the mesh size of the sieve used for separating the fraction forming a reusable waste is between 3.0 and 3.5 millimeters.
- 5. (Currently Amended) The method of claim 1 in which the fraction remaining after sieving (15) is treated by heat at a temperature of 500-520 °C.
- 6. (Currently Amended) The method of claim 1 in which the fluorescent material is separated from the surface of the glass particles by ultrasonic washing-(19).
- 7. (Currently Amended) The method of claim 1 in which obtaining the reusable fluorescent material from the liquid suspension comprises the steps of drawing off the liquid after the first sedimentary deposition-(21); and filling up the liquid, depositing, drawing off the liquid repeatedly for removing dirt remaining on the surface of the fluorescent material.

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- 8. (Original) The method of claim 1 in which the liquid used for separating the fluorescent material from the surface of the glass particles is water.
- 9. (Currently Amended) A method for recovering fluorescent material from faulty glass bodies (1) of discharge lamps, said glass body (1) having a glass envelope and a coating (9) of fluorescent material on the surface of the glass envelope, said method comprising the steps of breaking the faulty glass bodies (1) in a crusher; removing all metallic component parts if present in the glass bodies (1) by means of electromagnetic separation—(13); separating a remaining fraction forming a reusable waste from the broken scrap including glass particles and fluorescent material particles by sieving—(15); separating the fluorescent material from the surface of the glass particles in a liquid by washing—(19); and obtaining a reusable fluorescent material from the liquid suspension by means of at least one sedimentary deposition—(21).
- 10. (New) A method for recovering fluorescent material from faulty glass bodies of discharge lamps, said glass body having a glass envelope and a coating of fluorescent material on the surface of the glass envelope and sealed ends, said method comprising the steps of breaking the faulty glass bodies and ends in a crusher; removing all metallic component parts if present in the glass bodies by means of electromagnetic separation; separating a remaining fraction forming a reusable waste from the broken scrap including glass particles and fluorescent material particles by sieving; separating the fluorescent material from the surface of the glass particles in a liquid by washing; and obtaining a reusable fluorescent material from the liquid suspension by means of at least one sedimentary deposition.
- 11. (New) The method of claim 10 in which the crusher has press rollers and the distance between the press rollers is equal to 0.6D 0.9D, where D is the diameter of the glass envelope.
- 12. (New) The method of claim 10 in which the crusher has press rollers and the distance between the press rollers is adjustable.

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- 13. (New) The method of claim 10 in which the mesh size of the sieve used for separating the fraction forming a reusable waste is between 3.0 and 3.5 millimeters.
- 14. (New) The method of claim 10 in which the fraction remaining after sieving is treated by heat at a temperature of 500-520 °C.
- 15. (New) The method of claim 10 in which the fluorescent material is separated from the surface of the glass particles by ultrasonic washing.
- 16. (New) The method of claim 10 in which obtaining the reusable fluorescent material from the liquid suspension comprises the steps of drawing off the liquid after the first sedimentary deposition; and filling up the liquid, depositing, drawing off the liquid repeatedly for removing dirt remaining on the surface of the fluorescent material.
- 17. (New) The method of claim 10 in which the liquid used for separating the fluorescent material from the surface of the glass particles is water.